

Liquiritin apioside Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Liquiritin apioside

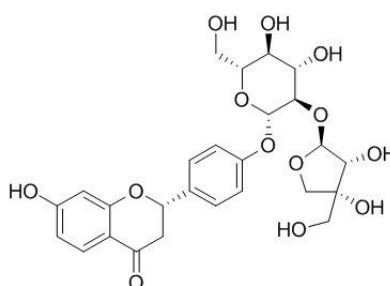
Catalog No.: CFN90707

Cas No.: 199796-12-8

Purity: >=98%

M.F: C₂₆H₃₀O₁₃

M.W: 550.5



Physical Description: Powder

Synonyms: Liquiritigenin-7-O-D-apiosyl-4'-O-D-glucoside; (2S)-7-(D-Apio-beta-D-furanosyloxy)-2-[4-(beta-D-glucopyranosyloxy)phenyl]-2,3-dihydro-4H-1-benzopyran-4-one.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The roots of *Glycyrrhiza uralensis* Fisch.

[Biological Activity or Inhibitors]

Liquiritin apioside (LA), a main flavonoid component from *Glycyrrhiza undensis*, has antioxidant properties by inducing glutathione (GSH) biosynthesis via the inhibition of cytokines and protects lung epithelial cells against cigarette smoke-mediated oxidative stress, suggests that LA may be effective as protective agent against epithelial injury in chronic obstructive pulmonary disease (COPD).^[1]

G. radix (licorice) may produce a persistent antitussive effect, and that liquiritin apioside plays an important role in the earlier phase, while liquiritigenin, which is a metabolite of liquiritin apioside and liquiritin, plays an important role in the late phase.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile- 1% Aqueous acetic acid ,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1]Guan Y, Li F F, Hong L, *et al. Fund. Clin. Pharmacol.* 2012, 26(4):473- 83.

[2] Kamei J, Saitoh A, Asano T, *et al. Eur. J. Pharmacol.*, 2005, 507(1-3):163-8.

[3] Kitagawa I, Chen W Z, Taniyama T, *et al. Yakugaku Zasshi .*, 1998, 118(11):519-28.

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